

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-3.1-052406	Diln Fac: 1.000
Lab ID: 187086-001	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	49	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	3.3	1.0	114148	06/08/06	200.8	EPA 6020

ND= Not Detected
RL= Reporting Limit

**Dissolved California Title 26 Metals**

Lab #:	187086	Project#:	16017.01
Client:	Acton Mickelson Environmental	Location:	Former GA-Pacific Sawmill
Field ID:	MW-3.8-052406	Diln Fac:	1.000
Lab ID:	187086-002	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06
Units:	ug/L	Prepared:	06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	41	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	5.3	1.0	114148	06/08/06	200.8	EPA 6020

ND= Not Detected

RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-3.10-052406	Diln Fac: 1.000
Lab ID: 187086-003	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	22	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	3.3	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	22	1.0	114148	06/08/06	200.8	EPA 6020

ND= Not Detected
RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-3.11-052406	Diln Fac: 1.000
Lab ID: 187086-004	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	27	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	7.2	1.0	114148	06/08/06	200.8	EPA 6020

ND= Not Detected
RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-5.2-052406	Diln Fac: 1.000
Lab ID: 187086-005	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	2.0	1.0	114148	06/08/06	200.8	EPA 6020
Barium	8.6	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	5.0	1.0	114148	06/08/06	200.8	EPA 6020

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-5.12-052406	Diln Fac: 1.000
Lab ID: 187086-006	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	1.1	1.0	114148	06/09/06	200.8	EPA 6020
Barium	10	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	1.2	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	1.2	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	5.9	1.0	114148	06/08/06	200.8	EPA 6020

ND= Not Detected
RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: MW-10.1-052406	Diln Fac: 1.000
Lab ID: 187086-007	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	39	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	6.6	1.0	114148	06/08/06	200.8	EPA 6020

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: DUP-2-052406	Diln Fac: 1.000
Lab ID: 187086-008	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	ND	1.0	114148	06/08/06	200.8	EPA 6020
Barium	39	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	3.8	1.0	114148	06/08/06	200.8	EPA 6020

Dissolved California Title 26 Metals

Lab #: 187086	Project#: 16017.01
Client: Acton Mickelson Environmental	Location: Former GA-Pacific Sawmill
Field ID: DUP-4-052406	Diln Fac: 1.000
Lab ID: 187086-009	Sampled: 05/24/06
Matrix: Filtrate	Received: 05/25/06
Units: ug/L	Prepared: 06/06/06

Analyte	Result	RL	Batch#	Analyzed	Prep	Analysis
Antimony	ND	1.0	114148	06/08/06	200.8	EPA 6020
Arsenic	1.4	1.0	114148	06/08/06	200.8	EPA 6020
Barium	10	1.0	114148	06/08/06	200.8	EPA 6020
Beryllium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Cadmium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Chromium	1.3	1.0	114148	06/08/06	200.8	EPA 6020
Cobalt	ND	1.0	114148	06/08/06	200.8	EPA 6020
Copper	ND	1.0	114148	06/08/06	200.8	EPA 6020
Lead	ND	1.0	114148	06/08/06	200.8	EPA 6020
Mercury	ND	0.20	114153	06/06/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	114148	06/08/06	200.8	EPA 6020
Nickel	ND	1.0	114148	06/08/06	200.8	EPA 6020
Selenium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Silver	ND	1.0	114148	06/08/06	200.8	EPA 6020
Thallium	ND	1.0	114148	06/08/06	200.8	EPA 6020
Vanadium	1.3	1.0	114148	06/08/06	200.8	EPA 6020
Zinc	18	1.0	114148	06/08/06	200.8	EPA 6020

Batch QC Report

Dissolved California Title 26 Metals

Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	200.8
Project#:	16017.01	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC342878	Batch#:	114148
Matrix:	Filtrate	Prepared:	06/06/06
Units:	ug/L		

Analyte	Result	RL	Analyzed
Antimony	ND	1.0	06/08/06
Arsenic	ND	1.0	06/08/06
Barium	ND	1.0	06/08/06
Beryllium	ND	1.0	06/08/06
Cadmium	ND	1.0	06/08/06
Chromium	ND	1.0	06/08/06
Cobalt	ND	1.0	06/08/06
Copper	ND	1.0	06/08/06
Lead	ND	1.0	06/08/06
Molybdenum	ND	1.0	06/08/06
Nickel	ND	1.0	06/08/06
Selenium	ND	1.0	06/08/06
Silver	ND	1.0	06/08/06
Thallium	ND	1.0	06/08/06
Vanadium	ND	1.0	06/08/06
Zinc	ND	1.0	06/09/06

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Dissolved California Title 26 Metals

Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	METHOD
Project#:	16017.01	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	114153
Lab ID:	QC342900	Prepared:	06/06/06
Matrix:	Filtrate	Analyzed:	06/06/06
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Dissolved California Title 26 Metals			
Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	200.8
Project#:	16017.01	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	114148
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: BS Lab ID: QC342879

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.06	98	80-120
Arsenic	100.0	96.46	96	80-120
Barium	100.0	95.84	96	80-120
Beryllium	100.0	100.3	100	80-120
Cadmium	100.0	98.91	99	80-120
Chromium	100.0	92.25	92	80-120
Cobalt	100.0	92.66	93	80-120
Copper	100.0	100.9	101	80-120
Lead	100.0	98.85	99	80-120
Molybdenum	100.0	96.00	96	80-120
Nickel	100.0	98.32	98	80-120
Selenium	100.0	91.60	92	80-120
Silver	100.0	99.30	99	80-120
Thallium	100.0	85.55	86	80-120
Vanadium	100.0	89.63	90	80-120
Zinc	100.0	98.63	99	80-120

Type: BSD Lab ID: QC342880

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.8	101	80-120	3	20
Arsenic	100.0	99.22	99	80-120	3	20
Barium	100.0	98.53	99	80-120	3	20
Beryllium	100.0	104.8	105	80-120	4	20
Cadmium	100.0	100.9	101	80-120	2	20
Chromium	100.0	94.54	95	80-120	2	20
Cobalt	100.0	95.08	95	80-120	3	20
Copper	100.0	102.4	102	80-120	1	20
Lead	100.0	102.3	102	80-120	3	20
Molybdenum	100.0	98.24	98	80-120	2	20
Nickel	100.0	100.9	101	80-120	3	20
Selenium	100.0	94.71	95	80-120	3	20
Silver	100.0	102.0	102	80-120	3	20
Thallium	100.0	89.66	90	80-120	5	20
Vanadium	100.0	91.65	92	80-120	2	20
Zinc	100.0	100.4	100	80-120	2	20

Batch QC Report

Dissolved California Title 26 Metals			
Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	200.8
Project#:	16017.01	Analysis:	EPA 6020
Field ID:	MW-3.1-052406	Batch#:	114148
MSS Lab ID:	187086-001	Sampled:	05/24/06
Matrix:	Filtrate	Received:	05/25/06
Units:	ug/L	Prepared:	06/06/06
Diln Fac:	1.000	Analyzed:	06/08/06

Type: MS Lab ID: QC342881

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1052	100.0	101.4	101	80-120
Arsenic	<0.6516	100.0	96.14	96	80-120
Barium	49.32	100.0	147.4	98	75-126
Beryllium	<0.05514	100.0	104.2	104	80-120
Cadmium	<0.1409	100.0	95.42	95	76-120
Chromium	0.4227	100.0	90.24	90	78-120
Cobalt	0.7120	100.0	90.60	90	80-120
Copper	<0.3124	100.0	96.95	97	80-120
Lead	<0.2399	100.0	101.9	102	80-120
Molybdenum	0.2381	100.0	94.49	94	80-120
Nickel	0.4148	100.0	94.90	94	77-120
Selenium	<0.3462	100.0	90.11	90	65-120
Silver	<0.04084	100.0	96.08	96	73-120
Thallium	0.6734	100.0	86.15	85	64-120
Vanadium	0.4516	100.0	88.33	88	78-122
Zinc	3.297	100.0	96.37	93	60-124

Type: MSD Lab ID: QC342882

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.85	100	80-120	2	20
Arsenic	100.0	95.44	95	80-120	1	20
Barium	100.0	145.5	96	75-126	1	20
Beryllium	100.0	103.5	104	80-120	1	20
Cadmium	100.0	95.40	95	76-120	0	20
Chromium	100.0	89.79	89	78-120	0	20
Cobalt	100.0	90.07	89	80-120	1	20
Copper	100.0	96.50	97	80-120	0	20
Lead	100.0	99.56	100	80-120	2	20
Molybdenum	100.0	93.32	93	80-120	1	20
Nickel	100.0	95.43	95	77-120	1	20
Selenium	100.0	88.38	88	65-120	2	20
Silver	100.0	95.23	95	73-120	1	20
Thallium	100.0	86.52	86	64-120	0	20
Vanadium	100.0	87.99	88	78-122	0	20
Zinc	100.0	95.57	92	60-124	1	20

Batch QC Report

Dissolved California Title 26 Metals			
Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	METHOD
Project#:	16017.01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114153
Matrix:	Filtrate	Prepared:	06/06/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC342903	5.000	5.510	110	80-120		
BSD	QC342904	5.000	5.390	108	80-120	2	20

Batch QC Report

Dissolved California Title 26 Metals

Lab #:	187086	Location:	Former GA-Pacific Sawmill
Client:	Acton Mickelson Environmental	Prep:	METHOD
Project#:	16017.01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	114153
Field ID:	MW-3.1-052406	Sampled:	05/24/06
MSS Lab ID:	187086-001	Received:	05/25/06
Matrix:	Filtrate	Prepared:	06/06/06
Units:	ug/L	Analyzed:	06/06/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC342905	<0.05753	5.000	5.390	108	74-125		
MSD	QC342906		5.000	5.380	108	74-125	0	20

Total Volatile Hydrocarbons

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/17/06
Units:	ug/L	Received:	05/18/06
Diln Fac:	1.000	Analyzed:	05/20/06
Batch#:	113636		

Field ID: SP-1.1-051706
 Type: SAMPLE

Lab ID: 186894-001

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	69-137
Bromofluorobenzene (FID)	107	80-133

Field ID: SP-1.1-051706TB59
 Type: SAMPLE

Lab ID: 186894-002

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	69-137
Bromofluorobenzene (FID)	104	80-133

Field ID: SP-10.1-051706
 Type: SAMPLE

Lab ID: 186894-003

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	69-137
Bromofluorobenzene (FID)	107	80-133

Type: BLANK

Lab ID: QC340846

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	69-137
Bromofluorobenzene (FID)	99	80-133

Total Extractable Hydrocarbons

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/17/06
Units:	ug/L	Received:	05/18/06
Diln Fac:	1.000	Prepared:	05/22/06
Batch#:	113681		

Field ID: SP-1.1-051706
 Type: SAMPLE
 Lab ID: 186894-001

Analyzed: 05/24/06
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-130

Field ID: SP-10.1-051706
 Type: SAMPLE
 Lab ID: 186894-003

Analyzed: 05/24/06
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	93	65-130

Type: BLANK
 Lab ID: QC341022

Analyzed: 05/25/06
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	92	65-130

Purgeable Organics by GC/MS

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.1-051706	Batch#:	113676
Lab ID:	186894-001	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Analyzed:	05/22/06
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.1-051706	Batch#:	113676
Lab ID:	186894-001	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Analyzed:	05/22/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-120
1,2-Dichloroethane-d4	130	80-130
Toluene-d8	102	80-120
Bromofluorobenzene	118	80-122

Purgeable Organics by GC/MS

Lab #: 186894	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-1.1-051706TB59	Batch#: 113676
Lab ID: 186894-002	Sampled: 05/17/06
Matrix: Water	Received: 05/18/06
Units: ug/L	Analyzed: 05/22/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.1-051706TB59	Batch#:	113676
Lab ID:	186894-002	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Analyzed:	05/22/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	115	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-122

Purgeable Organics by GC/MS

Lab #: 186894	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-10.1-051706	Batch#: 113676
Lab ID: 186894-003	Sampled: 05/17/06
Matrix: Water	Received: 05/18/06
Units: ug/L	Analyzed: 05/22/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-10.1-051706	Batch#:	113676
Lab ID:	186894-003	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Analyzed:	05/22/06
Diln Fac:	1.000		

Analyte	Result	RL
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-120
1,2-Dichloroethane-d4	132 *	80-130
Toluene-d8	105	80-120
Bromofluorobenzene	117	80-122

Polychlorinated Biphenyl Congeners

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-1.1-051706	Batch#:	113730
Lab ID:	186894-001	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.048	0.010
BZ# 18	ND	0.048	0.012
BZ# 28	ND	0.048	0.0099
BZ# 52	ND	0.048	0.010
BZ# 44	ND	0.048	0.0088
BZ# 66	ND	0.048	0.0082
BZ# 101	ND	0.048	0.0095
BZ# 81	ND	0.048	0.0086
BZ# 77	ND	0.048	0.012
BZ# 123	ND	0.048	0.0079
BZ# 118	ND	0.048	0.0092
BZ# 114	ND	0.048	0.0093
BZ# 153	ND	0.048	0.011
BZ# 105	ND	0.048	0.0081
BZ# 138	ND	0.048	0.0096
BZ# 187	ND	0.048	0.0080
BZ# 126	ND	0.048	0.0087
BZ# 128	ND	0.048	0.0081
BZ# 167	ND	0.048	0.0094
BZ# 156	ND #	0.048	0.0088
BZ# 157	ND	0.048	0.0081
BZ# 180	ND	0.048	0.0073
BZ# 170	ND #	0.048	0.0080
BZ# 169	ND #	0.048	0.0084
BZ# 189	ND #	0.048	0.0089
BZ# 195	ND	0.048	0.0091
BZ# 206	ND #	0.048	0.0088
BZ# 209	ND #	0.048	0.0082

Surrogate	%REC	Limits
TCMX	80	37-140
BZ# 205	80	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polychlorinated Biphenyl Congeners

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-10.1-051706	Batch#:	113730
Lab ID:	186894-003	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.048	0.010
BZ# 18	ND	0.048	0.012
BZ# 28	ND	0.048	0.0099
BZ# 52	ND	0.048	0.010
BZ# 44	ND	0.048	0.0088
BZ# 66	ND	0.048	0.0082
BZ# 101	ND	0.048	0.0095
BZ# 81	ND	0.048	0.0086
BZ# 77	ND	0.048	0.012
BZ# 123	ND	0.048	0.0079
BZ# 118	ND	0.048	0.0092
BZ# 114	ND	0.048	0.0093
BZ# 153	ND	0.048	0.011
BZ# 105	ND	0.048	0.0081
BZ# 138	ND	0.048	0.0096
BZ# 187	ND	0.048	0.0080
BZ# 126	ND	0.048	0.0087
BZ# 128	ND	0.048	0.0081
BZ# 167	ND	0.048	0.0094
BZ# 156	ND #	0.048	0.0088
BZ# 157	ND	0.048	0.0081
BZ# 180	ND	0.048	0.0073
BZ# 170	ND #	0.048	0.0080
BZ# 169	ND #	0.048	0.0084
BZ# 189	ND #	0.048	0.0089
BZ# 195	ND	0.048	0.0091
BZ# 206	ND #	0.048	0.0088
BZ# 209	ND #	0.048	0.0082

Surrogate	%REC	Limits
TCMX	76	37-140
BZ# 205	87	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-1.1-051706	Batch#:	113727
Lab ID:	186894-001	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	94	65-120
1-Methylnaphthalene (F)	96	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186894	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-10.1-051706	Batch#:	113727
Lab ID:	186894-003	Sampled:	05/17/06
Matrix:	Water	Received:	05/18/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-120
1-Methylnaphthalene (F)	94	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Dissolved California Title 26 Metals

Lab #: 186894	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-1.1-051706	Diln Fac: 1.000
Lab ID: 186894-001	Sampled: 05/17/06
Matrix: Filtrate	Received: 05/18/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	22	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	2.1	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113910	05/30/06	05/30/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	11	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Zinc	3.6	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

ND= Not Detected
 RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 186894	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-10.1-051706	Diln Fac: 1.000
Lab ID: 186894-003	Sampled: 05/17/06
Matrix: Filtrate	Received: 05/18/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	82	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	2.1	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113910	05/30/06	05/30/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	NA						
Zinc	3.5	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	113518
Units:	ug/L	Sampled:	05/16/06
Diln Fac:	1.000	Received:	05/17/06

Field ID:	SP-1.4-051606	Lab ID:	186873-001
Type:	SAMPLE	Analyzed:	05/18/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	69-137
Bromofluorobenzene (FID)	94	80-133

Field ID:	SP-1.3-051606	Lab ID:	186873-002
Type:	SAMPLE	Analyzed:	05/18/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	69-137
Bromofluorobenzene (FID)	99	80-133

Field ID:	SP-1.3-051606TB58	Lab ID:	186873-003
Type:	SAMPLE	Analyzed:	05/18/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	69-137
Bromofluorobenzene (FID)	100	80-133

ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	113518
Units:	ug/L	Sampled:	05/16/06
Diln Fac:	1.000	Received:	05/17/06

Field ID:	SP-1.2-051606	Lab ID:	186873-004
Type:	SAMPLE	Analyzed:	05/18/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	69-137
Bromofluorobenzene (FID)	92	80-133

Field ID:	SP-4.1-051606	Lab ID:	186873-005
Type:	SAMPLE	Analyzed:	05/18/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	69-137
Bromofluorobenzene (FID)	92	80-133

Type:	BLANK	Analyzed:	05/17/06
Lab ID:	QC340359		

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	69-137
Bromofluorobenzene (FID)	83	80-133

ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/16/06
Units:	ug/L	Received:	05/17/06
Diln Fac:	1.000	Prepared:	05/18/06
Batch#:	113601	Analyzed:	05/22/06

Field ID: SP-1.4-051606
 Type: SAMPLE

Lab ID: 186873-001
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	89	65-130

Field ID: SP-1.3-051606
 Type: SAMPLE

Lab ID: 186873-002
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-130

Field ID: SP-1.2-051606
 Type: SAMPLE

Lab ID: 186873-004
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-130

Field ID: SP-4.1-051606
 Type: SAMPLE

Lab ID: 186873-005
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-130

ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	05/16/06
Units:	ug/L	Received:	05/17/06
Diln Fac:	1.000	Prepared:	05/18/06
Batch#:	113601	Analyzed:	05/22/06

Type: BLANK
 Lab ID: QC340701

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	96	65-130

Purgeable Organics by GC/MS

Lab #: 186873	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-1.4-051606	Batch#: 113830
Lab ID: 186873-001	Sampled: 05/16/06
Matrix: Water	Received: 05/17/06
Units: ug/L	Analyzed: 05/26/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.4-051606	Batch#:	113830
Lab ID:	186873-001	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	106	80-130
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-122

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 186873	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-1.3-051606	Batch#: 113830
Lab ID: 186873-002	Sampled: 05/16/06
Matrix: Water	Received: 05/17/06
Units: ug/L	Analyzed: 05/26/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.3-051606	Batch#:	113830
Lab ID:	186873-002	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	104	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-122

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.3-051606TB58	Batch#:	113830
Lab ID:	186873-003	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.3-051606TB58	Batch#:	113830
Lab ID:	186873-003	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	107	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.2-051606	Batch#:	113830
Lab ID:	186873-004	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-1.2-051606	Batch#:	113830
Lab ID:	186873-004	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	106	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 186873	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-4.1-051606	Batch#: 113830
Lab ID: 186873-005	Sampled: 05/16/06
Matrix: Water	Received: 05/17/06
Units: ug/L	Analyzed: 05/26/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Ethanol	ND	1,000
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-4.1-051606	Batch#:	113830
Lab ID:	186873-005	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Analyzed:	05/26/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	105	80-130
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected
 RL= Reporting Limit

Polychlorinated Biphenyl Congeners

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-1.4-051606	Batch#:	113730
Lab ID:	186873-001	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.049	0.010
BZ# 18	ND	0.049	0.013
BZ# 28	ND	0.049	0.010
BZ# 52	ND	0.049	0.010
BZ# 44	ND	0.049	0.0090
BZ# 66	ND	0.049	0.0084
BZ# 101	ND	0.049	0.0097
BZ# 81	ND	0.049	0.0087
BZ# 77	ND	0.049	0.012
BZ# 123	ND	0.049	0.0080
BZ# 118	ND	0.049	0.0093
BZ# 114	ND	0.049	0.0095
BZ# 153	ND	0.049	0.011
BZ# 105	ND	0.049	0.0082
BZ# 138	ND	0.049	0.0098
BZ# 187	ND	0.049	0.0082
BZ# 126	ND	0.049	0.0089
BZ# 128	ND	0.049	0.0083
BZ# 167	ND	0.049	0.0095
BZ# 156	ND #	0.049	0.0090
BZ# 157	ND	0.049	0.0083
BZ# 180	ND	0.049	0.0074
BZ# 170	ND #	0.049	0.0081
BZ# 169	ND #	0.049	0.0086
BZ# 189	ND #	0.049	0.0091
BZ# 195	ND	0.049	0.0093
BZ# 206	ND #	0.049	0.0090
BZ# 209	ND #	0.049	0.0083

Surrogate	%REC	Limits
TCMX	83	37-140
BZ# 205	82	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polychlorinated Biphenyl Congeners

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-1.3-051606	Batch#:	113730
Lab ID:	186873-002	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.047	0.010
BZ# 18	ND	0.047	0.012
BZ# 28	ND	0.047	0.0099
BZ# 52	ND	0.047	0.010
BZ# 44	ND	0.047	0.0087
BZ# 66	ND	0.047	0.0081
BZ# 101	ND	0.047	0.0095
BZ# 81	ND	0.047	0.0085
BZ# 77	ND	0.047	0.012
BZ# 123	ND	0.047	0.0078
BZ# 118	ND	0.047	0.0091
BZ# 114	ND	0.047	0.0092
BZ# 153	ND	0.047	0.010
BZ# 105	ND	0.047	0.0080
BZ# 138	ND	0.047	0.0095
BZ# 187	ND	0.047	0.0080
BZ# 126	ND	0.047	0.0086
BZ# 128	ND	0.047	0.0080
BZ# 167	ND	0.047	0.0093
BZ# 156	ND #	0.047	0.0087
BZ# 157	ND	0.047	0.0081
BZ# 180	ND	0.047	0.0072
BZ# 170	ND #	0.047	0.0079
BZ# 169	ND #	0.047	0.0083
BZ# 189	ND #	0.047	0.0088
BZ# 195	ND	0.047	0.0090
BZ# 206	ND #	0.047	0.0087
BZ# 209	ND #	0.047	0.0081

Surrogate	%REC	Limits
TCMX	95	37-140
BZ# 205	86	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polychlorinated Biphenyl Congeners

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-1.2-051606	Batch#:	113730
Lab ID:	186873-004	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.048	0.010
BZ# 18	ND	0.048	0.012
BZ# 28	ND	0.048	0.0099
BZ# 52	ND	0.048	0.010
BZ# 44	ND	0.048	0.0088
BZ# 66	ND	0.048	0.0082
BZ# 101	ND	0.048	0.0095
BZ# 81	ND	0.048	0.0086
BZ# 77	ND	0.048	0.012
BZ# 123	ND	0.048	0.0079
BZ# 118	ND	0.048	0.0092
BZ# 114	ND	0.048	0.0093
BZ# 153	ND	0.048	0.011
BZ# 105	ND	0.048	0.0081
BZ# 138	ND	0.048	0.0096
BZ# 187	ND	0.048	0.0080
BZ# 126	ND	0.048	0.0087
BZ# 128	ND	0.048	0.0081
BZ# 167	ND	0.048	0.0094
BZ# 156	ND #	0.048	0.0088
BZ# 157	ND	0.048	0.0081
BZ# 180	ND	0.048	0.0073
BZ# 170	ND #	0.048	0.0080
BZ# 169	ND #	0.048	0.0084
BZ# 189	ND #	0.048	0.0089
BZ# 195	ND	0.048	0.0091
BZ# 206	ND #	0.048	0.0088
BZ# 209	ND #	0.048	0.0082

Surrogate	%REC	Limits
TCMX	89	37-140
BZ# 205	89	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polychlorinated Biphenyl Congeners

Lab #: 186873	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 3520C
Project#: 16017.08	Analysis: EPA 8082
Field ID: SP-4.1-051606	Batch#: 113730
Lab ID: 186873-005	Sampled: 05/16/06
Matrix: Water	Received: 05/17/06
Units: ug/L	Prepared: 05/23/06
Diln Fac: 1.000	Analyzed: 05/28/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	0.030 C J	0.048	0.010
BZ# 18	ND	0.048	0.012
BZ# 28	ND	0.048	0.0099
BZ# 52	ND	0.048	0.010
BZ# 44	ND	0.048	0.0088
BZ# 66	ND	0.048	0.0082
BZ# 101	ND	0.048	0.0095
BZ# 81	ND	0.048	0.0086
BZ# 77	ND	0.048	0.012
BZ# 123	ND	0.048	0.0079
BZ# 118	ND	0.048	0.0092
BZ# 114	ND	0.048	0.0093
BZ# 153	ND	0.048	0.011
BZ# 105	ND	0.048	0.0081
BZ# 138	ND	0.048	0.0096
BZ# 187	ND	0.048	0.0080
BZ# 126	ND	0.048	0.0087
BZ# 128	ND	0.048	0.0081
BZ# 167	ND	0.048	0.0094
BZ# 156	ND #	0.048	0.0088
BZ# 157	ND	0.048	0.0081
BZ# 180	ND	0.048	0.0073
BZ# 170	ND #	0.048	0.0080
BZ# 169	ND #	0.048	0.0084
BZ# 189	ND #	0.048	0.0089
BZ# 195	ND	0.048	0.0091
BZ# 206	ND #	0.048	0.0088
BZ# 209	ND #	0.048	0.0082

Surrogate	%REC	Limits
TCMX	86	37-140
BZ# 205	89	37-140

#= CCV drift outside limits; average CCV drift within limits per method requirements
 C= Presence confirmed, but RPD between columns exceeds 40%
 J= Estimated value
 ND= Not Detected
 RL= Reporting Limit
 MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-1.4-051606	Batch#:	113727
Lab ID:	186873-001	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	0.09
Acenaphthylene	ND	1.9	0.24
Acenaphthene	ND	0.96	0.32
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	65-120
1-Methylnaphthalene (F)	96	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-1.3-051606	Batch#:	113727
Lab ID:	186873-002	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-120
1-Methylnaphthalene (F)	94	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-1.2-051606	Batch#:	113727
Lab ID:	186873-004	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	90	65-120
1-Methylnaphthalene (F)	92	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186873	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-4.1-051606	Batch#:	113727
Lab ID:	186873-005	Sampled:	05/16/06
Matrix:	Water	Received:	05/17/06
Units:	ug/L	Prepared:	05/23/06
Diln Fac:	1.000	Analyzed:	05/24/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	92	65-120
1-Methylnaphthalene (F)	94	65-120

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Dissolved California Title 26 Metals

Lab #: 186873	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-1.4-051606	Diln Fac: 1.000
Lab ID: 186873-001	Sampled: 05/16/06
Matrix: Filtrate	Received: 05/17/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	26	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	1.4	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	3.2	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113794	05/25/06	05/25/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	1.2	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	8.9	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Zinc	8.0	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

ND= Not Detected

RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 186873	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-1.3-051606	Diln Fac: 1.000
Lab ID: 186873-002	Sampled: 05/16/06
Matrix: Filtrate	Received: 05/17/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	63	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	1.4	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	2.0	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113794	05/25/06	05/25/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	5.2	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Zinc	3.4	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

ND= Not Detected
 RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 186873	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-1.2-051606	Diln Fac: 1.000
Lab ID: 186873-004	Sampled: 05/16/06
Matrix: Filtrate	Received: 05/17/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	24	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	1.5	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113794	05/25/06	05/25/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	6.7	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Zinc	2.9	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

ND= Not Detected
 RL= Reporting Limit

Dissolved California Title 26 Metals

Lab #: 186873	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-4.1-051606	Diln Fac: 1.000
Lab ID: 186873-005	Sampled: 05/16/06
Matrix: Filtrate	Received: 05/17/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Arsenic	1.6	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Barium	30	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Beryllium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cadmium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Chromium	2.6	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Cobalt	1.1	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Copper	2.9	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Lead	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Mercury	ND	0.20	113794	05/25/06	05/25/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Nickel	1.5	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Selenium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Silver	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Thallium	ND	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Vanadium	8.6	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020
Zinc	5.5	1.0	113835	05/26/06	05/31/06	200.8	EPA 6020

ND= Not Detected
 RL= Reporting Limit

Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID 10604591172

Send Results to:

5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570

Attn.: Jeff Hygie

- ☒ Preliminary Fax Result
☒ Sample Receipt/ Log-In Confirmation
☒ Electronic Data Deliverables
☒ Geotracker EDF
☒ Raw Data Deliverables
☒ Call with Verbal Results

1860873

Lab ID (LAB USE ONLY)	Field Point ID	Sample ID	Date Collected	Time Collected	Matrix	Container	Number of Containers	Preservative	Requested Analysis	Chain of Custody	Page
-1		SP-1.4-051606	5/16/06	0800	GW	5	5	C	82406 V.C.S. 82415 T.P.H. T.M.C. / S.C.L. 82408 T.C.B.S. C.Y.G.M.S. 82407 H.T.S. C.Y.G.M.S. 82406 H.T.S. C.Y.G.M.S. 82405 H.T.S. C.Y.G.M.S. 82404 H.T.S. C.Y.G.M.S. 82403 H.T.S. C.Y.G.M.S. 82402 H.T.S. C.Y.G.M.S. 82401 H.T.S. C.Y.G.M.S.	5 day TAT	1
-2		SP-1.3-051606	5/16/06	1003	GW	5	5	C	82406 V.C.S. 82415 T.P.H. T.M.C. / S.C.L. 82408 T.C.B.S. C.Y.G.M.S. 82407 H.T.S. C.Y.G.M.S. 82406 H.T.S. C.Y.G.M.S. 82405 H.T.S. C.Y.G.M.S. 82404 H.T.S. C.Y.G.M.S. 82403 H.T.S. C.Y.G.M.S. 82402 H.T.S. C.Y.G.M.S. 82401 H.T.S. C.Y.G.M.S.	5 day TAT	2
-3		SP-1.3-051606	5/16/06	0810	GW	5	5	C	82406 V.C.S. 82415 T.P.H. T.M.C. / S.C.L. 82408 T.C.B.S. C.Y.G.M.S. 82407 H.T.S. C.Y.G.M.S. 82406 H.T.S. C.Y.G.M.S. 82405 H.T.S. C.Y.G.M.S. 82404 H.T.S. C.Y.G.M.S. 82403 H.T.S. C.Y.G.M.S. 82402 H.T.S. C.Y.G.M.S. 82401 H.T.S. C.Y.G.M.S.	5 day TAT	3
-4		SP-1.2-051606	5/16/06	1230	GW	5	5	C	82406 V.C.S. 82415 T.P.H. T.M.C. / S.C.L. 82408 T.C.B.S. C.Y.G.M.S. 82407 H.T.S. C.Y.G.M.S. 82406 H.T.S. C.Y.G.M.S. 82405 H.T.S. C.Y.G.M.S. 82404 H.T.S. C.Y.G.M.S. 82403 H.T.S. C.Y.G.M.S. 82402 H.T.S. C.Y.G.M.S. 82401 H.T.S. C.Y.G.M.S.	5 day TAT	4
-5		SP-1.4-051606	5/16/06	1400	GW	5	5	C	82406 V.C.S. 82415 T.P.H. T.M.C. / S.C.L. 82408 T.C.B.S. C.Y.G.M.S. 82407 H.T.S. C.Y.G.M.S. 82406 H.T.S. C.Y.G.M.S. 82405 H.T.S. C.Y.G.M.S. 82404 H.T.S. C.Y.G.M.S. 82403 H.T.S. C.Y.G.M.S. 82402 H.T.S. C.Y.G.M.S. 82401 H.T.S. C.Y.G.M.S.	5 day TAT	5
* Sample Labeled SP-1.4-051606 TB58 - Field by time. (PP)											
Temperature											
Signature: Jeff Hygie Date: 5/17/06 Time: 0730											
Relinquished by: Jeff Hygie Date: 5/17/06 Time: 1400											
Received by: Jeff Hygie Date: 5/17/06 Time: 1400											
Relinquished by: Jeff Hygie Date: 5/17/06 Time: 1400											
Received by: Jeff Hygie Date: 5/17/06 Time: 1400											

Matrix: W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water;
RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
Container: GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube;
P - Polyethylene; GJ - Glass Jar; SC - Summa Canister; TD - Tedlar
Preservative: C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Cooler Temp = 2.2 °, 3 °, 3.2 °

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.08
Sampled by: Thomas Carroll
Received by: Carlisle Tompkins
Signature: Thomas Carroll

YELLOW - Laboratory PINK - Originator

ORIGINAL - Laboratory (Return with Report)

Total Volatile Hydrocarbons

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	113148
Units:	ug/L	Sampled:	05/03/06
Diln Fac:	1.000	Received:	05/04/06

Field ID: SEEP-3-050306TB57 Lab ID: 186609-001
 Type: SAMPLE Analyzed: 05/09/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	69-137
Bromofluorobenzene (FID)	103	80-133

Field ID: SEEP-3-050306 Lab ID: 186609-002
 Type: SAMPLE Analyzed: 05/09/06

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	69-137
Bromofluorobenzene (FID)	104	80-133

Type: BLANK Analyzed: 05/08/06
 Lab ID: QC338865

Analyte	Result	RL
Gasoline C6-C8	ND	50
Gasoline C8-C10	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	69-137
Bromofluorobenzene (FID)	91	80-133

ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8015B
Field ID:	SP-8.1-050306	Batch#:	113222
Matrix:	Water	Sampled:	05/03/06
Units:	ug/L	Received:	05/04/06
Diln Fac:	1.000	Prepared:	05/09/06

Type:	SAMPLE	Analyzed:	05/11/06
Lab ID:	186609-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	108	65-130

Type:	BLANK	Analyzed:	05/10/06
Lab ID:	QC339163	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C12	ND	50
Diesel C12-C16	ND	50
Diesel C16-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	97	65-130

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 186609	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-8.1-050306TB57	Batch#: 113428
Lab ID: 186609-001	Sampled: 05/03/06
Matrix: Water	Received: 05/04/06
Units: ug/L	Analyzed: 05/15/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Ethanol	ND	1,000
Trichlorofluoromethane	ND	1.0
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-8.1-050306TB57	Batch#:	113428
Lab ID:	186609-001	Sampled:	05/03/06
Matrix:	Water	Received:	05/04/06
Units:	ug/L	Analyzed:	05/15/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-120
1,2-Dichloroethane-d4	117	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-122

Purgeable Organics by GC/MS

Lab #: 186609	Location: Ft Bragg-Site Assessment
Client: Acton Mickelson Environmental	Prep: EPA 5030B
Project#: 16017.08	Analysis: EPA 8260B
Field ID: SP-8.1-050306	Batch#: 113428
Lab ID: 186609-002	Sampled: 05/03/06
Matrix: Water	Received: 05/04/06
Units: ug/L	Analyzed: 05/15/06
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Ethanol	ND	1,000
Trichlorofluoromethane	ND	1.0
Isopropanol	ND	100
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 5030B
Project#:	16017.08	Analysis:	EPA 8260B
Field ID:	SP-8.1-050306	Batch#:	113428
Lab ID:	186609-002	Sampled:	05/03/06
Matrix:	Water	Received:	05/04/06
Units:	ug/L	Analyzed:	05/15/06
Diln Fac:	1.000		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	117	80-120
1,2-Dichloroethane-d4	121	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-122

Polychlorinated Biphenyl Congeners

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8082
Field ID:	SP-8.1-050306	Batch#:	113268
Lab ID:	186609-002	Sampled:	05/03/06
Matrix:	Water	Received:	05/04/06
Units:	ug/L	Prepared:	05/10/06
Diln Fac:	1.000	Analyzed:	05/17/06

Cleanup Method: EPA 3665A

Analyte	Result	RL	MDL
BZ# 8	ND	0.050	0.0093
BZ# 18	ND	0.050	0.013
BZ# 28	ND	0.050	0.012
BZ# 52	ND	0.050	0.015
BZ# 44	ND	0.050	0.014
BZ# 66	ND	0.050	0.013
BZ# 101	ND	0.050	0.011
BZ# 81	ND	0.050	0.011
BZ# 77	ND	0.050	0.015
BZ# 123	ND	0.050	0.011
BZ# 118	ND	0.050	0.012
BZ# 114	ND	0.050	0.012
BZ# 153	ND	0.050	0.011
BZ# 105	ND	0.050	0.011
BZ# 138	ND	0.050	0.011
BZ# 187	ND	0.050	0.014
BZ# 126	ND	0.050	0.011
BZ# 128	ND	0.050	0.012
BZ# 167	ND	0.050	0.010
BZ# 156	ND	0.050	0.019
BZ# 157	ND	0.050	0.013
BZ# 180	ND	0.050	0.012
BZ# 170	ND	0.050	0.011
BZ# 169	ND	0.050	0.014
BZ# 189	ND	0.050	0.012
BZ# 195	ND	0.050	0.011
BZ# 206	ND	0.050	0.010
BZ# 209	ND	0.050	0.012

Surrogate	%REC	Limits
TCMX	93	37-140
BZ# 205	116	37-140

ND= Not Detected

RL= Reporting Limit

MDL= Method Detection Limit

Polynuclear Aromatics by HPLC

Lab #:	186609	Location:	Ft Bragg-Site Assessment
Client:	Acton Mickelson Environmental	Prep:	EPA 3520C
Project#:	16017.08	Analysis:	EPA 8310
Field ID:	SP-8.1-050306	Batch#:	113166
Lab ID:	186609-002	Sampled:	05/03/06
Matrix:	Water	Received:	05/04/06
Units:	ug/L	Prepared:	05/08/06
Diln Fac:	1.000	Analyzed:	05/11/06

Analyte	Result	RL	MDL
Naphthalene	ND	0.95	0.09
Acenaphthylene	ND	1.9	0.23
Acenaphthene	ND	0.95	0.31
Fluorene	ND	0.19	0.03
Phenanthrene	ND	0.10	0.007
Anthracene	ND	0.10	0.02
Fluoranthene	ND	0.19	0.01
Pyrene	ND	0.10	0.01
Benzo (a) anthracene	ND	0.10	0.01
Chrysene	ND	0.10	0.009
Benzo (b) fluoranthene	ND	0.19	0.01
Benzo (k) fluoranthene	ND	0.10	0.008
Benzo (a) pyrene	ND	0.10	0.02
Dibenz (a,h) anthracene	ND	0.19	0.02
Benzo (g,h,i) perylene	ND	0.19	0.02
Indeno (1,2,3-cd) pyrene	ND	0.10	0.009

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	99	65-120
1-Methylnaphthalene (F)	92	65-120

ND= Not Detected

RL= Reporting Limit

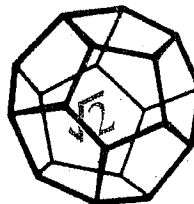
MDL= Method Detection Limit

Dissolved California Title 26 Metals

Lab #: 186609	Project#: 16017.08
Client: Acton Mickelson Environmental	Location: Ft Bragg-Site Assessment
Field ID: SP-8.1-050306	Diln Fac: 1.000
Lab ID: 186609-002	Sampled: 05/03/06
Matrix: Filtrate	Received: 05/04/06
Units: ug/L	

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Arsenic	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Barium	85	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Beryllium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Cadmium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Chromium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Cobalt	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Copper	1.5	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Lead	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Mercury	ND	0.20	113476	05/16/06	05/16/06	METHOD	EPA 7470A
Molybdenum	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Nickel	4.3	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Selenium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Silver	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Thallium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Vanadium	ND	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020
Zinc	13	1.0	113598	05/18/06	05/18/06	200.8	EPA 6020

ND= Not Detected
 RL= Reporting Limit



**NORTH COAST
LABORATORIES LTD.**

June 01, 2006

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710

Attn: Lisa Brooker

RE: 186873 Ft Bragg-Site Assessment

Order No.: 0605427

Invoice No.: 58509

PO No.:

ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction Client Sample Description

O1A	SP-1.4-051606
O2A	SP-1.3-051606
O3A	SP-1.2-051606
O4A	SP-4.1-051606

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

Date: 01-Jun-06
WorkOrder: 0605427

ANALYTICAL REPORT

Client Sample ID: SP-1.4-051606
Lab ID: 0605427-01A

Received: 5/18/06

Collected: 5/16/06 8:00

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	ND	0.10	mg/L	1.0		5/31/06

Client Sample ID: SP-1.3-051606
Lab ID: 0605427-02A

Received: 5/18/06

Collected: 5/16/06 10:03

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	ND	0.10	mg/L	1.0		5/31/06

Client Sample ID: SP-1.2-051606
Lab ID: 0605427-03A

Received: 5/18/06

Collected: 5/16/06 12:30

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	0.24	0.10	mg/L	1.0		5/31/06

Client Sample ID: SP-4.1-051606
Lab ID: 0605427-04A

Received: 5/18/06

Collected: 5/16/06 0:00

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	0.33	0.10	mg/L	1.0		5/31/06

North Coast Laboratories, Ltd.

Date: 01-Jun-06

QC SUMMARY REPORT

Method Blank

CLIENT: Curtis & Tompkins, Ltd.

Work Order: 0605427

Project: 186873 Ft Bragg-Site Assessment

Sample ID	MBLK	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date	5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SPK Ref Val	% Rec	SeqNo: 596609
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tannin and Lignin		ND	0.10				

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 01-Jun-06

CLIENT: Curtis & Tompkins, Ltd.

Work Order: 0605427

Project: 186873 Ft Bragg-Site Assessment

QC SUMMARY REPORT

Laboratory Control Spike

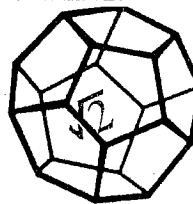
Sample ID	LCS	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date 5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SeqNo: 596610	
Analyte		Result	Limit	SPK value	LowLimit	HighLimit
Tannin and Lignin		1.097	0.10	1.00	0	120
					% Rec	110%
					SPK Ref Val	0
					RPD Ref Val	0
					%RPD	RPDLimit
					Qual	
Sample ID	LCSD	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date 5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SeqNo: 596611	
Analyte		Result	Limit	SPK value	LowLimit	HighLimit
Tannin and Lignin		1.066	0.10	1.00	0	120
					% Rec	107%
					SPK Ref Val	0
					RPD Ref Val	1.10
					%RPD	2.87%
					RPDLimit	20
					Qual	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



**NORTH COAST
LABORATORIES LTD.**

June 02, 2006

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710

Attn: Lisa Brooker

RE: 186894 Ft Bragg-Site Assessment

Order No.: 0605471
Invoice No.: 58511
PO No.:
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction Client Sample Description

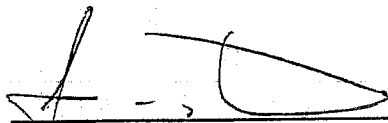
01A	SP-1.1-051706
02A	SP-10.1-051706
03A	SP-8.1-051706

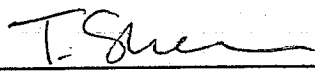
ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

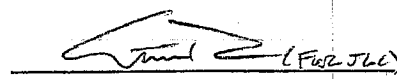
All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY


Laboratory Supervisor(s)



QA Unit

 (Fur-Jel)

Jesse G. Chaney, Jr.
Laboratory Director



Date: 01-Jun-06

WorkOrder: 0605471

ANALYTICAL REPORT

Client Sample ID: SP-1.1-051706

Received: 5/19/06

Collected: 5/17/06 8:00

Lab ID: 0605471-01A

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	ND	0.10	mg/L	1.0		5/31/06

Client Sample ID: SP-10.1-051706

Received: 5/19/06

Collected: 5/17/06 9:00

Lab ID: 0605471-02A

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	ND	0.10	mg/L	1.0		5/31/06

Client Sample ID: SP-8.1-051706

Received: 5/19/06

Collected: 5/17/06 14:40

Lab ID: 0605471-03A

Test Name: Tannin and Lignin

Reference: Std. Meth. 19th Ed. 5550 B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Tannin and Lignin	0.38	0.10	mg/L	1.0		5/31/06

North Coast Laboratories, Ltd.

Date: 02-Jun-06

CLIENT: Curtis & Tompkins, Ltd.

Work Order: 0605471

Project: 186894 Ft Bragg-Site Assessment

QC SUMMARY REPORT

Method Blank

Sample ID	MBLK	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date	5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SeqNo:	596609	
Analyte		Result	Limit	SPK value	% Rec	LowLimit	HighLimit
Tannin and Lignin		ND	0.10			%RPD	RPDLimit
							Qual

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 02-Jun-06

North Coast Laboratories, Ltd.

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: Curtis & Tompkins, Ltd.
Work Order: 0605471
Project: 186894 Ft Bragg-Site Assessment

Sample ID	LCS	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date	5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SeqNo:	596610	
Analyte		Result	0.10	1.00	% Rec	LowLimit	HighLimit
						RPD Ref Val	RPDLimit
							Qual
Tannin and Lignin							

Sample ID	LCSD	Batch ID: R41545	Test Code: TANLIW	Units: mg/L	Analysis Date	5/31/06	Prep Date
Client ID:		Run ID: WC_060531B	Limit	SPK value	SeqNo:	596611	
Analyte		Result	0.10	1.00	% Rec	LowLimit	HighLimit
						RPD Ref Val	RPDLimit
							Qual
Tannin and Lignin							

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

APPENDIX D

Data Validation Summary Reports

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 186873
Sample Date: 5/17/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: No data qualified.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs	volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted. Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	5	0	Used MDL
8015B (TPHd, motor oil)	Water	4	0	Used MDL
8082 (PCBs)	Water	4	0	Used MDL
8260B (VOCs)	Water	5	0	Used MDL
8310 (PAHs)	Water	4	0	Used MDL

REMARKS:

None.

DATA VALIDATION REPORT

Page 3 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	5	0
8015B (TPHd, motor oil)	4	0
8082 (PCBs)	4	0

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

DATA VALIDATION REPORT

Page 4 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:
None.

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8310 (PAHs)	4	0	0

REMARKS:
None.

DATA VALIDATION REPORT

Page 5 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8310 (PAHs)	4	0	0

REMARKS:

None.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8310 (PAHs)	4	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 6 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA
8082 (PCBs)	NA
8260B (VOCs)	NA
8270C (SVOCs)	NA
8310 (PAHs)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

None.

DATA VALIDATION REPORT

Page 7 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Page 8 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	4	0	Used PQL
EPA 7470A (mercury)	Water	4	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	4	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 9 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 10 of 12

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	4	0	0

REMARKS:

None.

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	4	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

DATA VALIDATION REPORT

Page 11 of 12

Project Name:	Georgia-Pacific California Wood Products Manufacturing Facility
Project Number:	16017.01
Sample Deliverable Group:	186873
Report Date Final:	9/7/06

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186873
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
SP-1.4	SP-1.4-051606	05/16/06	water	Normal Environmental Sample	186873-01	05/17/06	SP-1.4-051606
SP-1.3	SP-1.3-051606	05/16/06	water	Normal Environmental Sample	186873-02	05/17/06	SP-1.3-051606
SP-1.3	SP-1.3-051606TB58	05/16/06	water	Trip Blank	186873-03	05/17/06	SP-1.3-051606TB58
SP-1.2	SP-1.2-051606	05/16/06	water	Normal Environmental Sample	186873-04	05/17/06	SP-1.2-051606
SP-4.1	SP-4.1-051606	05/16/06	water	Normal Environmental Sample	186873-05	05/17/06	SP-4.1-051606

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 186894
Sample Date: 5/17/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: No data qualified.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs	volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted. Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	3	0	Used MDL
8015B (TPHd, motor oil)	Water	2	0	Used MDL
8082 (PCBs)	Water	2	0	Used MDL
8260B (VOCs)	Water	3	0	Used MDL
8310 (PAHs)	Water	2	0	Used MDL

REMARKS:

None.

DATA VALIDATION REPORT

Page 3 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	3	
8015B (TPHd, motor oil)	2	
8082 (PCBs)	2	

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 4 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	3	0	0
8015B (TPHd, motor oil)	2	0	0
8082 (PCBs)	2	0	0
8260B (VOCs)	3	0	0
8310 (PAHs)	2	0	0

REMARKS:

1. High surrogate recovery was observed for 1,2-dichloroethane-d4 in SP-10.1-051706 (lab # 186894-003); no target analytes were detected in the sample. No data were qualified.

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	3	0	0
8015B (TPHd, motor oil)	2	0	0
8082 (PCBs)	2	0	0
8260B (VOCs)	3	0	0
8310 (PAHs)	2	0	0

REMARKS:

None.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	3	0	0
8015B (TPHd, motor oil)	2	0	0
8082 (PCBs)	2	0	0
8260B (VOCs)	3	0	0
8310 (PAHs)	2	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 5 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA
8082 (PCBs)	NA
8260B (VOCs)	NA
8270C (SVOCs)	NA
8310 (PAHs)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

None.

DATA VALIDATION REPORT

Page 6 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Page 7 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	2	0	Used PQL
EPA 7470A (mercury)	Water	2	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	2	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 8 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	2	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 9 of 10

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	2	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 186894
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
SP-1.1	SP-1.1-051706	05/17/06	water	Normal Environmental Sample	186894-01	05/18/06	SP-1.1-051706
SP-1.1	SP-1.1-051706TB59	05/17/06	water	Trip Blank	186894-02	05/18/06	SP-1.1-051706TB59
SP-10.1	SP-10.1-051706	05/17/06	water	Normal Environmental Sample	186894-03	05/18/06	SP-10.1-051706
SP-8.1	SP-8.1-051706	05/17/06	water	Normal Environmental Sample	186894-04	05/18/06	SP-8.1-051706

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 187024
Sample Date: 5/22/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: See attached Table 2.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs\	volatile organic compounds
SVOCs	semi-volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contaminations and trip blank contaminations.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted. Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	17	0	Used MDL
8015B (TPHd, motor oil)	Water	16	1	Used MDL
8082 (PCBs)	Water	16	0	Used MDL
8260B (VOCs)	Water	16	0	Used MDL
8270C (SVOCs)	Water	17	0	Used MDL
8310 (PAHs)	Water	16	0	Used MDL

REMARKS:

None.

DATA VALIDATION REPORT

Page 3 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	17	0
8015B (TPHd, motor oil)	16	0
8082 (PCBs)	16	0

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

DATA VALIDATION REPORT

Page 4 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	P
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:

Many analytes were detected in the 4 batch blanks. Samples with detections for analytes between the MDL and the RL that had detections in the blanks samples were qualified “u”.

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	16	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	16	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 5 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	17	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	17	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	17	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	17	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 6 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

None.

Primary Sample ID MW-2.4-052206
Duplicate Sample ID: DUP-1-052206

Primary Sample ID MW-4.4-052206
Duplicate Sample ID: DUP-3-052206

DATA VALIDATION REPORT

Page 7 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	P
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

1. Actone and methylene chloride were detected in the trip blank at 1.0 µg/l and 0.4 J µg/l, respectively. Results that were less than 5 times the trip blank were qualified "u".

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

DATA VALIDATION REPORT

Page 8 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	16	0	Used PQL
EPA 7470A (mercury)	Water	16	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	16	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 9 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 10 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	16	0	0

REMARKS:

None.

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	16	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

None.

Primary Sample ID MW-2.4-052206
Duplicate Sample ID: DUP-1-052206

Primary Sample ID MW-4.4-052206
Duplicate Sample ID: DUP-3-052206

DATA VALIDATION REPORT

Page 11 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187024
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
WM-2.1	WM-2.1-052206	05/22/06	water	Normal Environmental Sample	187024-01	05/23/06	WM-2.1-052206
MW-2.2	MW-2.2-052206	05/22/06	water	Normal Environmental Sample	187024-02	05/23/06	MW-2.2-052206
MW-2.3	MW-2.3-052206	05/22/06	water	Normal Environmental Sample	187024-03	05/23/06	MW-2.3-052206
MW-2.4	MW-2.4-052206	05/22/06	water	Normal Environmental Sample	187024-04	05/23/06	MW-2.4-052206
MW-2.5	MW-2.5-052206	05/22/06	water	Normal Environmental Sample	187024-05	05/23/06	MW-2.5-052206
MW-2.6	MW-2.6-052206	05/22/06	water	Normal Environmental Sample	187024-06	05/23/06	MW-2.6-052206
MW-4.1	MW-4.1-052206	05/22/06	water	Normal Environmental Sample	187024-07	05/23/06	MW-4.1-052206
MW-4.2	MW-4.2-052206	05/22/06	water	Normal Environmental Sample	187024-08	05/23/06	MW-4.2-052206
MW-4.3	MW-4.3-052206	05/22/06	water	Normal Environmental Sample	187024-09	05/23/06	MW-4.3-052206
MW-4.4	MW-4.4-052206	05/22/06	water	Normal Environmental Sample	187024-10	05/23/06	MW-4.4-052206
MW-5.6	MW-5.6-052206	05/22/06	water	Normal Environmental Sample	187024-11	05/23/06	MW-5.6-052206
MW-5.7	MW-5.7-052206	05/22/06	water	Normal Environmental Sample	187024-12	05/23/06	MW-5.7-052206
MW-5.8	MW-5.8-052206	05/22/06	water	Normal Environmental Sample	187024-13	05/23/06	MW-5.8-052206
MW-5.9	MW-5.9-052206	05/22/06	water	Normal Environmental Sample	187024-14	05/23/06	MW-5.9-052206
MW-2.4	DUP-1-052206	05/22/06	water	Field Duplicate	187024-15	05/23/06	DUP-1-052206
MW-4.4	DUP-3-052206	05/22/06	water	Field Duplicate	187024-16	05/23/06	DUP-3-052206
WM-2.1	WM-2.1-052206TB1	05/22/06	water	Trip Blank	187024-17	05/23/06	WM-2.1-052206TB1

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
 Project Number: 16017.01
 Sample Deliverable Group: 187024
 Report Date Final: 9/7/06

Page 13 of 14

TABLE 2
SUMMARY OF QUALIFIED DATA

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-2.6-052206	187024-006	EPA 8260B	6/1/2006	1,1,1-Trichloroethane	0.2	ug/l	Y	J	u	0.1	0.5
MW-2.1-052206	187024-001	EPA 8260B	6/2/2006	Acetone	0.9	ug/l	Y	J	u	0.9	10
MW-2.2-052206	187024-002	EPA 8260B	6/1/2006	Acetone	0.8	ug/l	Y	J	u	0.2	10
MW-2.3-052206	187024-003	EPA 8260B	6/1/2006	Acetone	0.9	ug/l	Y	J	u	0.2	10
MW-2.4-052206	187024-004	EPA 8260B	6/1/2006	Acetone	0.5	ug/l	Y	J	u	0.2	10
MW-2.5-052206	187024-005	EPA 8260B	6/1/2006	Acetone	0.8	ug/l	Y	J	u	0.2	10
MW-2.6-052206	187024-006	EPA 8260B	6/1/2006	Acetone	0.7	ug/l	Y	J	u	0.2	10
MW-4.1-052206	187024-007	EPA 8260B	6/2/2006	Acetone	0.9	ug/l	Y	J	u	0.2	10
MW-5.7-052206	187024-012	EPA 8260B	6/1/2006	Acetone	1.7	ug/l	Y	J	u	0.9	10
MW-5.9-052206	187024-014	EPA 8260B	6/1/2006	Acetone	0.9	ug/l	Y	J	u	0.9	10
MW-2.1-052206	187024-001	EPA 8260B	6/2/2006	Carbon Disulfide	0.04	ug/l	Y	J	u	0.03	0.5
MW-4.2-052206	187024-008	EPA 8260B	6/1/2006	Carbon Disulfide	0.05	ug/l	Y	J	u	0.03	0.5
MW-2.2-052206	187024-001	EPA 8260B	6/2/2006	Methylene Chloride	0.4	ug/l	Y	J	u	0.2	10
MW-2.2-052206	187024-002	EPA 8260B	6/1/2006	Methylene Chloride	0.2	ug/l	Y	J	u	0.1	10
MW-2.3-052206	187024-003	EPA 8260B	6/1/2006	Methylene Chloride	0.2	ug/l	Y	J	u	0.1	10
MW-4.1-052206	187024-007	EPA 8260B	6/2/2006	Methylene Chloride	0.2	ug/l	Y	J	u	0.1	10
MW-4.2-052206	187024-008	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
MW-4.3-052206	187024-009	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
MW-4.4-052206	187024-010	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
MW-5.6-052206	187024-011	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
MW-5.9-052206	187024-014	EPA 8260B	6/1/2006	Methylene Chloride	0.4	ug/l	Y	J	u	0.2	10
DUP-1-052206	187024-015	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
DUP-3-052206	187024-016	EPA 8260B	6/1/2006	Methylene Chloride	0.3	ug/l	Y	J	u	0.2	10
MW-2.2-052206	187024-002	EPA 8260B	6/1/2006	Naphthalene	0.06	ug/l	Y	J	u	0.06	2

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-4.2-052206	187024-008	EPA 8260B	6/1/2006	Naphthalene	0.2	ug/l	Y	Jb	u	0.1	2
MW-4.3-052206	187024-009	EPA 8260B	6/1/2006	Naphthalene	0.1	ug/l	Y	Jb	u	0.1	2
MW-2.3-052206	187024-003	EPA 8260B	6/1/2006	n-Butylbenzene	0.1	ug/l	Y	J	u	0.1	0.5
MW-2.2-052206	187024-002	EPA 8260B	6/1/2006	sec-Butylbenzene	0.6	ug/l	Y	J	u	0.06	0.5
MW-2.3-052206	187024-003	EPA 8260B	6/1/2006	sec-Butylbenzene	0.1	ug/l	Y	J	u	0.06	0.5
MW-2.2-052206	187024-002	EPA 8260B	6/1/2006	Trichloroethene	0.2	ug/l	Y	J	u	0.2	0.5
MW-2.3-052206	187024-003	EPA 8260B	6/1/2006	Trichloroethene	0.2	ug/l	Y	J	u	0.2	0.5

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 187061
Sample Date: 5/23/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: See attached Table 2.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs\	volatile organic compounds
SVOCs	semi-volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contaminations and trip blank contaminations.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted. Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	17	0	Used MDL
8015B (TPHd, motor oil)	Water	16	0	Used MDL
8082 (PCBs)	Water	16	0	Used MDL
8260B (VOCs)	Water	17	0	Used MDL
8270C (SVOCs)	Water	16	0	Used MDL
8310 (PAHs)	Water	16	0	Used MDL

REMARKS:

None.

DATA VALIDATION REPORT

Page 3 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	17	0
8015B (TPHd, motor oil)	16	0
8082 (PCBs)	16	0

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

DATA VALIDATION REPORT

Page 4 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	P
8270C (SVOCs)	P
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:

1. Methylene chloride and acetone, common lab solvents, were detected in several of the method blank batches and were detected between the MDL and the RL in several samples. Samples with detections less than 10 times the blank contaminant level were qualified “u”. Seven samples were qualified for methylene chloride and sixteen samples were qualified for acetone.
2. Bis(2-ethylhexyl)phthalate was detected in the method blank at 13 ug/l. Positive detections in the samples that were less than 5 times the blank detection were qualified “u”. Non-detects were accepted.

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	17	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	17	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 5 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	17	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	17	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	17	0	0
8015B (TPHd, motor oil)	16	0	0
8082 (PCBs)	16	0	0
8260B (VOCs)	17	0	0
8270C (SVOCs)	16	0	0
8310 (PAHs)	16	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 6 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA
8082 (PCBs)	NA
8260B (VOCs)	NA
8270C (SVOCs)	NA
8310 (PAHs)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	P
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

1. TPHg was detected in the trip blank at 15 µg/l. Results that were less than 5 times the trip blank were qualified "u". Three samples were affected.

DATA VALIDATION REPORT

Page 7 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

DATA VALIDATION REPORT

Page 8 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	16	0	Used PQL
EPA 7470A (mercury)	Water	16	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	16	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 9 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 10 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	16	0	0

REMARKS:

None.

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	16	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected with this sample group.

DATA VALIDATION REPORT

Page 11 of 14

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
MW-2.7	MW-2.7-052306	05/23/06	water	Normal Environmental Sample	187061-01	05/24/06	MW-2.7-052306
SP-3.1	SP-3.1-052306	05/23/06	water	Normal Environmental Sample	187061-02	05/24/06	SP-3.1-052306
MW-3.2	MW-3.2-052306	05/23/06	water	Normal Environmental Sample	187061-03	05/24/06	MW-3.2-052306
MW-3.3	MW-3.3-052306	05/23/06	water	Normal Environmental Sample	187061-04	05/24/06	MW-3.3-052306
MW-3.4	MW-3.4-052306	05/23/06	water	Normal Environmental Sample	187061-05	05/24/06	MW-3.4-052306
MW-3.5	MW-3.5-052306	05/23/06	water	Normal Environmental Sample	187061-06	05/24/06	MW-3.5-052306
MW-3.6	MW-3.6-052306	05/23/06	water	Normal Environmental Sample	187061-07	05/24/06	MW-3.6-052306
MW-3.7	MW-3.7-052306	05/23/06	water	Normal Environmental Sample	187061-08	05/24/06	MW-3.7-052306
MW-3.9	MW-3.9-052306	05/23/06	water	Normal Environmental Sample	187061-09	05/24/06	MW-3.9-052306
MW-5.1	MW-5.1-052306	05/23/06	water	Normal Environmental Sample	187061-10	05/24/06	MW-5.1-052306
MW-5.3	MW-5.3-052306	05/23/06	water	Normal Environmental Sample	187061-11	05/24/06	MW-5.3-052306
MW-5.4	MW-5.4-052306	05/23/06	water	Normal Environmental Sample	187061-12	05/24/06	MW-5.4-052306
MW-5.5	MW-5.5-052306	05/23/06	water	Normal Environmental Sample	187061-13	05/24/06	MW-5.5-052306
MW-5.10	MW-5.10-052306	05/23/06	water	Normal Environmental Sample	187061-14	05/24/06	MW-5.10-052306
MW-5.11	MW-5.11-052306	05/23/06	water	Normal Environmental Sample	187061-15	05/24/06	MW-5.11-052306
MW-5.13	MW-5.13-052306	05/23/06	water	Normal Environmental Sample	187061-16	05/24/06	MW-5.13-052306
MW-2.7	MW-2.7-052306TB2	05/23/06	water	Trip Blank	187061-17	05/24/06	MW-2.7-052306TB2

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
 Project Number: 16017.01
 Sample Deliverable Group: 187061
 Report Date Final: 9/7/06

Page 13 of 14

TABLE 2
SUMMARY OF QUALIFIED DATA

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-2.7-052306	187061-01	8260B	6/2/06	methylene chloride	0.1	µg/l	Y	J	u	0.1	10
MW-5.3-052306	187061-11	8260B	6/2/06	methylene chloride	0.4	µg/l	Y	J	u	0.1	10
MW-5.4-052306	187061-12	8260B	6/2/06	methylene chloride	0.4	µg/l	Y	J	u	0.1	10
MW-5.5-052306	187061-13	8260B	6/2/06	methylene chloride	0.4	µg/l	Y	J	u	0.1	10
MW-5.10-052306	187061-14	8260B	6/2/06	methylene chloride	0.2	µg/l	Y	J	u	0.1	10
MW-5.11-052306	187061-16	8260B	6/5/06	methylene chloride	0.2	µg/l	Y	J	u	0.1	10
MW-2.7-052306TB2	187061-17	8260B	6/2/06	methylene chloride	0.4	µg/l	Y	J	u	0.1	10
MW-2.7-052306	187061-01	8260B	6/2/06	acetone	0.8	µg/l	Y	J	u	0.1	10
SP-3.1-052306	187061-02	8260B	6/2/06	acetone	0.6	µg/l	Y	J	u	0.1	10
MW-3.2-052306	187061-03	8260B	6/2/06	acetone	0.5	µg/l	Y	J	u	0.1	10
MW-3.3-052306	187061-04	8260B	6/2/06	acetone	0.6	µg/l	Y	J	u	0.1	10
MW-3.4-052306	187061-05	8260B	6/2/06	acetone	1.0	µg/l	Y	J	u	0.1	10
MW-3.5-052306	187061-06	8260B	6/2/06	acetone	0.5	µg/l	Y	J	u	0.1	10
MW-3.6-052306	187061-07	8260B	6/2/06	acetone	0.5	µg/l	Y	J	u	0.1	10
MW-3.7-052306	187061-08	8260B	6/2/06	acetone	0.8	µg/l	Y	J	u	0.1	10
MW-3.9-052306	187061-09	8260B	6/2/06	acetone	0.6	µg/l	Y	J	u	0.2	10
MW-5.1-052306	187061-10	8260B	6/2/06	acetone	1.7	µg/l	Y	J	u	0.2	10
MW-5.3-052306	187061-11	8260B	6/2/06	acetone	2.1	µg/l	Y	J	u	0.2	10
MW-5.4-052306	187061-12	8260B	6/2/06	acetone	1.9	µg/l	Y	J	u	0.2	10
MW-5.5-052306	187061-13	8260B	6/2/06	acetone	2.2	µg/l	Y	J	u	0.2	10
MW-5.10-052306	187061-14	8260B	6/3/06	acetone	1.0	µg/l	Y	J	u	0.2	10

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187061
Report Date Final: 9/7/06

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-5.11-052306	187061-15	8260B	6/5/06	acetone	1.4	µg/l	Y	J	u	0.2	10
MW-5.13-052306	187061-16	8260B	6/6/06	acetone	1.1	µg/l	Y	J	u	0.2	10
MW-3.4-052306	187061-05	8270C	6/2/06	bis(2-ethylhexyl)phthalate	3.8	µg/l	Y	J b	u	0.65	9.6
MW-3.5-052306	187061-06	8270C	6/2/06	bis(2-ethylhexyl)phthalate	3.8	µg/l	Y	J b	u	0.65	9.6
MW-3.9-052306	187061-09	8270C	6/2/06	bis(2-ethylhexyl)phthalate	3.7	µg/l	Y	J b	u	0.65	9.6
MW-5.1-052306	187061-10	8270C	6/2/06	bis(2-ethylhexyl)phthalate	4.0	µg/l	Y	J b	u	0.65	9.6
MW-5.3-052306	187061-11	8270C	6/2/06	bis(2-ethylhexyl)phthalate	4.1	µg/l	Y	J b	u	0.65	9.6
MW-5.10-052306	187061-14	8270C	6/2/06	bis(2-ethylhexyl)phthalate	4.0	µg/l	Y	J b	u	0.65	9.6
MW-5.11-052306	187061-15	8270C	6/6/06	bis(2-ethylhexyl)phthalate	20	µg/l	Y	b	u	0.52	9.8
MW-5.13-052306	187061-16	8270C	6/6/06	bis(2-ethylhexyl)phthalate	13	µg/l	Y	b	u	0.52	9.8
MW-3.2-052306	187061-03	8015B	5/25/06	gasoline(C6-C8)	12	µg/l	Y	J	u	10	50
MW-5.11-052306	187061-15	8015B	5/26/06	gasoline (C6-C8)	26	µg/l	Y	J	u	10	50
MW-5.13-052306	187061-16	8015B	5/26/06	gasoline (C6-C8)	17	µg/l	Y	J	u	10	50

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 187086
Sample Date: 5/24/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: See attached Table 2.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs\	volatile organic compounds
SVOCs	semi-volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contaminations and field duplicate inconsistencies.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons, except for sample MW-10.1-052406.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	10	0	Used MDL
8015B (TPHd, motor oil)	Water	9	1	Used MDL
8082 (PCBs)	Water	9	0	Used MDL
8260B (VOCs)	Water	9	0	Used MDL
8270C (SVOCs)	Water	10	0	Used MDL
8310 (PAHs)	Water	9	0	Used MDL

REMARKS:

Sample MW-10.1-052406 for TPH diesel and motor oil was analyzed without using silica gel cleanup (EPA 3630C) as requested.

DATA VALIDATION REPORT

Page 3 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	10	0
8015B (TPHd, motor oil)	9	0
8082 (PCBs)	9	0

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

DATA VALIDATION REPORT

Page 4 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	P
8015B (TPHd, motor oil)	P
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:

1. Gasoline C6-C8 and gasoline C8-C10 were detected between the MDL and the RL in the method blank for batch 113900; samples with detections less than 5 times the blank contaminant level were qualified “u”. Three samples were qualified.
2. Diesel C12-C16 and diesel C16-C24 were detected between the MDL and the RL in the method blank for batch 114122; samples with detections less than 5 times the blank contaminant level were qualified “u”. Four samples were qualified.
3. Many SVOC analytes were detected between the MDL and the RL in the method blank for batch 114100 and the method blank for batch 114141; these analytes were not detected in samples at or above the RL.
4. Methylene chloride and acetone, common lab solvents, were detected in the method blank at 0.2 µg/l and 0.4 µg/l, respectively, and were detected between the MDL and the RL in several samples. Samples with detections less than 10 times the blank contaminant level were qualified “u”. Two samples were qualified for methylene chloride and x sample were qualified for acetone.

DATA VALIDATION REPORT

Page 5 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	10	0	0
8015B (TPHd, motor oil)	9	0	0
8082 (PCBs)	9	0	0
8260B (VOCs)	9	0	0
8270C (SVOCs)	10	0	0
8310 (PAHs)	9	0	0

REMARKS:

1. High surrogate recovery was observed for TCMX in the MS of MW-3.1-052406 (lab # 187086-001). No data were qualified.

DATA VALIDATION REPORT

Page 6 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	9	0	0
8015B (TPHd, motor oil)	9	0	0
8082 (PCBs)	10	0	0
8260B (VOCs)	10	0	0
8270C (SVOCs)	10	0	0
8310 (PAHs)	10	0	0

REMARKS:

1. High recoveries were observed for pentachlorophenol in the MS/MSD of MW-3.1-052406 (lab #187086-001); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No qualification was necessary.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	9	0	0
8015B (TPHd, motor oil)	9	0	0
8082 (PCBs)	10	0	0
8260B (VOCs)	10	0	0
8270C (SVOCs)	10	0	0
8310 (PAHs)	10	0	0

REMARKS:

1. High recoveries were observed for pentachlorophenol in the MS/MSD of MW-3.1-052406 (lab #187086-001); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No qualification was necessary.
2. High recovery was observed for BZ# 77 in the MSD of MW-3.1-052406 (lab #187086-001); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

DATA VALIDATION REPORT

Page 7 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	P
8015B (TPHd, motor oil)	P
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS: the sample group had two sets of field duplicates:

Primary Sample ID – MW-3.8-052406

Duplicate Sample ID – DUP-2-052406

Primary Sample ID – MW-5.12-052406

Duplicate Sample ID – DUP-4-052406

1. The duplicate comparison indicated an inconsistency in the results for gasoline C6-C8 and gasoline C8-C10 in both field duplicate samples; in each set one sample was ND and the other sample had results between the MDL and the RL. Since the result of the positive detection was not greater than 2X the quantitation limit, all positive detections are qualified with “uj” and all non-detects were accepted.
2. The duplicate comparison indicated an inconsistency in the results for diesel C16-C24 in one of the duplicate samples; one sample was ND and the other sample had results between the MDL and the RL. Since the result of the positive detection was not greater than 2X the quantitation limit, all positive detections are qualified with “uj” and all non-detects were accepted.

DATA VALIDATION REPORT

Page 8 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

None.

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

DATA VALIDATION REPORT

Page 9 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	9	0	Used PQL
EPA 7470A (mercury)	Water	9	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	9	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 10 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 11 of 15

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	9	0	0

REMARKS:

None.

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	9	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

Primary Sample ID – MW-3.8-052406

Duplicate Sample ID – DUP-2-052406

Primary Sample ID – MW-5.12-052406

Duplicate Sample ID – DUP-4-052406

None.

DATA VALIDATION REPORT

Page 12 of 15

Project Name:	Georgia-Pacific California Wood Products Manufacturing Facility
Project Number:	16017.01
Sample Deliverable Group:	187086
Report Date Final:	9/7/06

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187086
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
MW-3.1	MW-3.1-052406	05/25/06	water	Normal Environmental Sample	187086-01	05/25/06	MW-3.1-052406
MW-3.8	MW-3.8-052406	05/25/06	water	Normal Environmental Sample	187086-02	05/25/06	MW-3.8-052406
MW-3.10	MW-3.10-052406	05/25/06	water	Normal Environmental Sample	187086-03	05/25/06	MW-3.10-052406
MW-3.11	MW-3.11-052406	05/25/06	water	Normal Environmental Sample	187086-04	05/25/06	MW-3.11-052406
MW-5.2	MW-5.2-052406	05/25/06	water	Normal Environmental Sample	187086-05	05/25/06	MW-5.2-052406
MW-5.12	MW-5.12-052406	05/25/06	water	Normal Environmental Sample	187086-06	05/25/06	MW-5.12-052406
MW-10.1	MW-10.1-052406	05/25/06	water	Normal Environmental Sample	187086-07	05/25/06	MW-10.1-052406
MW-3.8	DUP-2-052406	05/25/06	water	Field Duplicate	187086-08	05/25/06	DUP-2-052406
MW-5.12	DUP-4-052406	05/25/06	water	Field Duplicate	187086-09	05/25/06	DUP-4-052406
MW-5.2	MW-5.2-052406TB3	05/25/06	water	Trip Blank	187086-10	05/25/06	MW-5.2-052406TB3

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
 Project Number: 16017.01
 Sample Deliverable Group: 187086
 Report Date Final: 9/7/06

Page 14 of 15

TABLE 2
SUMMARY OF QUALIFIED DATA

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-3.1-052406	187086-01	8015B	5/26/06	gasoline C6-C8	12	µg/l	Y	J	u	6.7	50
MW-3.1-052406	187086-01	8015B	5/26/06	gasoline C8-C10	8.6	µg/l	Y	J	u	6.7	50
MW-10.1-052406	187086-07	8015B	5/30/06	gasoline C6-C8	7.2	µg/l	Y	J	u	4.8	50
MW-10.1-052406	187086-07	8015B	5/30/06	gasoline C8-C10	8.3	µg/l	Y	J	u	4.8	50
DUP-2-052406	187086-08	8015B	5/30/06	gasoline C6-C8	7.7	µg/l	Y	J	u	4.8	50
DUP-2-052406	187086-08	8015B	5/30/06	gasoline C8-C10	8.3	µg/l	Y	J	u	4.8	50
DUP-4-052406	187086-09	8015B	5/30/06	gasoline C6-C8	12	µg/l	Y	J	u	4.8	50
DUP-4-052406	187086-09	8015B	5/30/06	gasoline C8-C10	7.7	µg/l	Y	J	u	4.8	50
MW-3.8-052406	187086-02	8015B	6/07/06	diesel C16-C24	21	µg/l	Y	J	u	18	50
MW-3.10-052406	187086-03	8015B	6/08/06	diesel C16-C24	19	µg/l	Y	J	u	18	50
MW-5.2-052406	187086-05	8015B	6/08/06	diesel C16-C24	21	µg/l	Y	J	u	18	50
MW-10.1-052406	187086-07	8015B	6/08/06	diesel C16-C24	21	µg/l	Y	J	u	18	50
MW-3.1-052406	187086-01	8260B	6/5/06	methylene chloride	0.2	µg/l	Y	J	u	0.2	10
MW-5.2-052406TB3	187086-10	8260B	6/5/06	methylene chloride	0.4	µg/l	Y	J	u	0.2	10
MW-3.1-052406	187086-01	8260B	6/5/06	acetone	0.7	µg/l	Y	J	u	0.2	10
MW-3.8-052406	187086-02	8260B	6/5/06	acetone	0.6	µg/l	Y	J	u	0.2	10
MW-3.10-052406	187086-03	8260B	6/5/06	acetone	0.8	µg/l	Y	J	u	0.2	10
MW-3.11-052406	187086-04	8260B	6/5/06	acetone	0.4	µg/l	Y	J	u	0.2	10
MW-5.2-052406	187086-05	8260B	6/5/06	acetone	0.7	µg/l	Y	J	u	0.2	10
MW-5.12-052406	187086-06	8260B	6/5/06	acetone	0.7	µg/l	Y	J	u	0.2	10
MW-10.1-052406	187086-07	8260B	6/5/06	acetone	0.5	µg/l	Y	J	u	0.2	10
DUP-2-052406	187086-08	8260B	6/6/06	acetone	0.9	µg/l	Y	J	u	0.2	10

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
DUP-4-052406	187086-09	8260B	6/6/06	acetone	0.5	µg/l	Y	J	u	0.2	10

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Location: 90 West Redwood Avenue, Fort Bragg, California
Project Number: 16017.01
Project Activity: Quarterly Ground Water Monitoring, Second Quarter 2006

Laboratory: Curtis & Tompkins Ltd., Berkeley, California
Sample Deliverable Group: 187109
Sample Date: 5/25/06
Sample Matrix Types: Water
Samples: See attached Table 1.
Qualified Data: See attached Table 2.
Report Date Final: 9/7/06
Review By: Grace M. Willis

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP)*, which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility*. Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

ABBREVIATIONS USED IN THIS REPORT

LCS	laboratory control sample
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not analyzed
PAH	polynuclear aromatics
PCB	polychlorinated biphenyl congeners
PQL	practical quantitation limit
QAP	quality assurance plan
RL	reporting limit
RPD	relative percent difference
VOCs	volatile organic compounds
SVOCs	semi-volatile organic compounds
°C	degrees Celsius
µg/l	micrograms per liter
%REC	percent recovery

DATA VALIDATION REPORT

Page 2 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

ORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contaminations and trip blank contaminations.

Completeness: The analytical results are within the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:

No exceptions noted. Laboratory case narrative stated that samples were received cold and intact.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted. Silica gel clean-up was used for SEMI 8015B Total Extractable Hydrocarbons.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
8015B (TPHg)	Water	5	0	Used MDL
8015B (TPHd, motor oil)	Water	4	0	Used MDL
8082 (PCBs)	Water	4	0	Used MDL
8260B (VOCs)	Water	5	0	Used MDL
8270C (SVOCs)	Water	4	0	Used MDL
8310 (PAHs)	Water	4	0	Used MDL

REMARKS:

None.

DATA VALIDATION REPORT

Page 3 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
8015B (TPHg)	5	0
8015B (TPHd, motor oil)	4	0
8082 (PCBs)	4	0

REMARKS:

None.

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
8015B (TPHg)	A
8015B (TPHd, motor oil)	A
8082 (PCBs)	A
8260B (VOCs)	A
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

DATA VALIDATION REPORT

Page 4 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
8015B (TPHg)	P
8015B (TPHd, motor oil)	P
8082 (PCBs)	A
8260B (VOCs)	P
8270C (SVOCs)	A
8310 (PAHs)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unusable. See remarks.

REMARKS: Method blanks were contaminated as shown below:

1. TPHg C6-C8 and TPHg C8-C10 were detected between the MDL and the RL in the method blank for batch 113891; samples with detections less than 5 times the blank contaminant level were qualified “u”. Five samples were qualified.
2. Diesel C12-C16 and diesel C16-C24 were detected between the MDL and the RL in the method blank for batch 113891; samples with detections less than 5 times the blank contaminant level were qualified “u”. Two samples were qualified.
3. Many SVOC analytes were detected between the MDL and the RL in the method blank for batch 114150; these analytes were not detected in samples at or above the RL.
4. Methylene chloride, a common lab solvent, was detected in the method blank at 0.5 µg/l. and was detected between the MDL and the RL in several samples. Samples with detections less than 10 times the blank contaminant level were qualified “u”. Four samples were qualified.

VI. SURROGATE SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8270C (SVOCs)	4	0	0
8310 (PAHs)	4	0	0

REMARKS:

1. High surrogate recovery was observed for hexacosane in MW-10.4-052506 (lab #187109-004); no target analytes were detected at or above RL in the sample.

DATA VALIDATION REPORT

Page 5 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

VII. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8270C (SVOCs)	4	0	0
8310 (PAHs)	4	0	0

REMARKS:

None.

VIII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
8015B (TPHg)	5	0	0
8015B (TPHd, motor oil)	4	0	0
8082 (PCBs)	4	0	0
8260B (VOCs)	5	0	0
8270C (SVOCs)	4	0	0
8310 (PAHs)	4	0	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 6 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

IX. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA
8082 (PCBs)	NA
8260B (VOCs)	NA
8270C (SVOCs)	NA
8310 (PAHs)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected for this sample group.

X. TRIP BLANK SAMPLE RESULTS (water only)

Method Analysis	Result
8015B (TPHg)	NA
8015B (TPHd, motor oil)	NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.

P - Provisional - Contaminants present but minimal interference with sample results.

U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS:

Acetone and Methylene chloride were detected in the trip blank at levels between the RL and the MDL. Samples with detections less than 10 times the blank were qualified "u".

DATA VALIDATION REPORT

Page 7 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

XI. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

DATA VALIDATION REPORT

Page 8 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

INORGANIC DATA**I. SUMMARY OF PROBLEMS/ COMMENTS**

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data usability.

II. DATA VERIFICATION REVIEW**SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:**

No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:

No exceptions noted. Dissolved metal samples WERE field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:

No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

Method Analysis	Matrix	No. Samples	No. Exceptions	Note
EPA 6020 (metals)	Water	4	0	Used PQL
EPA 7470A (mercury)	Water	4	0	Used PQL

REMARKS:

None.

III. SAMPLE HOLDING TIMES (water only)

Method Analysis	No. Samples	No. Late
EPA 6020/7470A (metals)	4	0

REMARKS:

None.

DATA VALIDATION REPORT

Page 9 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

IV. LABORATORY CONTROL SAMPLES (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable – all criteria met.

P - Provisional – some criteria not met; data useable. See remarks.

U - Unacceptable - criteria not met; data unuseable. See remarks

REMARKS:

C&T will at times use the terms BS and BSD. It is equivalent to LCS & LCSD and utilized whenever there is inadequate sample volume to run MS/MSD.

V. METHOD BLANK ANALYSIS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	A

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.

P - Provisional - contaminants present but minimal interference with sample results.

U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.

REMARKS: Method blanks were contaminated as shown below:

None.

DATA VALIDATION REPORT

Page 10 of 13

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

VI. MATRIX SPIKE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	4	0	0

REMARKS:

None.

VII. MATRIX SPIKE DUPLICATE RESULTS (water only)

Method Analysis	No. Samples	No. Samples J	No. Samples R
EPA 6020/7470A (metals)	4	0	0

REMARKS:

None.

VIII. FIELD DUPLICATE SAMPLE RESULTS (water only)

Method Analysis	Result
EPA 6020/7470A (metals)	NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration

P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.

U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.

REMARKS:

No field duplicates were collected for this sample group.

DATA VALIDATION REPORT

Page 11 of 13

Project Name:	Georgia-Pacific California Wood Products Manufacturing Facility
Project Number:	16017.01
Sample Deliverable Group:	187109
Report Date Final:	9/7/06

IX. EQUIPMENT BLANK SAMPLE RESULTS

Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

X. SUMMARY OF QUALIFIED DATA

No data was qualified in this section of the review.

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Location	Sample ID	Sample Date	Matrix	Type	Lab ID	Receipt Date	ID on COC
MW-7.1	MW-7.1-052506	05/25/06	water	Normal Environmental Sample	187109-01	05/26/06	MW-7.1-052506
MW-10.2	MW-10.2-052506	05/25/06	water	Normal Environmental Sample	187109-02	05/26/06	MW-10.2-052506
MW-10.3	MW-10.3-052506	05/25/06	water	Normal Environmental Sample	187109-03	05/26/06	MW-10.3-052506
MW-10.4	MW-10.4-052506	05/25/06	water	Normal Environmental Sample	187109-04	05/26/06	MW-10.4-052506
MW-7.1	MW-7.1-052506TB4	05/25/06	water	Normal Environmental Sample	187109-05	05/26/06	MW-7.1-052506TB4

DATA VALIDATION REPORT

Project Name: Georgia-Pacific California Wood Products Manufacturing Facility
Project Number: 16017.01
Sample Deliverable Group: 187109
Report Date Final: 9/7/06

Page 13 of 13

TABLE 2
SUMMARY OF QUALIFIED DATA

Sample ID	Lab ID	Method	Analysis Date	Chemical	Result	Units	Detect Flag	Lab Qualifier	Review Qualifier	MDL	PQL
MW-7.1-052506	187109-01	8015B	5/29/06	TPHg C8-C10	7.3	µg/l	Y	J	u	4.8	50
MW-10.2-052506	187109-02	8015B	5/29/06	TPHg C6-C8	6.5	µg/l	Y	J	u	4.8	50
MW-10.2-052506	187109-02	8015B	5/29/06	TPHg C8-C10	5.4	µg/l	Y	J	u	4.8	50
MW-10.3-052506	187109-03	8015B	5/29/06	TPHg C6-C8	5.5	µg/l	Y	J	u	4.8	50
MW-10.3-052506	187109-03	8015B	5/29/06	TPHg C8-C10	6.8	µg/l	Y	J	u	4.8	50
MW-10.4-052506	187109-04	8015B	5/29/06	TPHg C6-C8	6.1	µg/l	Y	J	u	4.8	50
MW-10.4-052506	187109-04	8015B	5/29/06	TPHg C8-C10	7.1	µg/l	Y	J	u	4.8	50
MW-7.1-052506TB4	187109-05	8015B	5/29/06	TPHg C6-C8	5.0	µg/l	Y	J	u	4.8	50
MW-7.1-052506TB4	187109-05	8015B	5/29/06	TPHg C8-C10	6.0	µg/l	Y	J	u	4.8	50
MW-10.2-052506	187109-02	8015B	6/9/06	TPHd C16-C24	21	µg/l	Y	J	u	21	50
MW-10.4-052506	187109-04	8015B	6/9/06	TPHd C16-C24	22	µg/l	Y	J	u	21	50
MW-7.1-052506	187109-01	8260B	6/6/06	methylene chloride	0.3	µg/l	Y	J	u	0.2	10
MW-10.2-052506	187109-02	8260B	6/6/06	methylene chloride	0.2	µg/l	Y	J	u	0.2	10
MW-10.3-052506	187109-03	8260B	6/6/06	methylene chloride	0.3	µg/l	Y	J	u	0.2	10
MW-10.4-052506	187109-04	8260B	6/6/06	methylene chloride	0.2	µg/l	Y	J	u	0.2	10

ACTON •
MICKELSON •
ENVIRONMENTAL, INC.

Consulting Scientists, Engineers, and Geologists